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Listing of Claims

- 1. (Currently Amended) A portable manually operated batch operation device comprising:
 - a non-pressurized liquid reservoir;
 - a generator producing an ozone containing gas;
 - apparatus for preventing liquid from entering the ozone generator;
- a gas pumping system arranged for causing the ozone-containing gas to flow from the generator to a contact region;
- a liquid passageway arranged for conducting liquid from the liquid reservoir to the contact region, where ozone from the ozone-containing gas dissolves in the liquid;
- a liquid pumping system arranged for causing the liquid to move through the liquid passageway from the liquid source reservoir to the contact region;
 - a system for separating undissolved gas from the liquid and venting the gas;
- a system for preventing ozone in the separated gas from escaping into the atmosphere by passing the gas through an ozone reducing material before venting; and
- a controllable delivery system to direct the liquid containing dissolved ozone to the point of use, where a rate of flow through the controllable delivery system is adjusted by the user.
- 2. (Original) The device of claim 1 where a control system is arranged for operating the generator, the liquid passageway, the gas pumping system, and the liquid pumping system.
- 3. (Original) The device of claim 1 where the ozone containing gas is made by a corona discharge generator.
- 4. (Original) The device of claim 1 where the pumping system uses pump means to mix the ozone-containing gas with the liquid and recirculate the liquid being ozonated until it is dispensed from the device.
- 5. (Original) The device of claim 4 where the pump means includes a static mixer.
- 6. (Original) The device of claim 4 where the pump means is a positive pressure liquid pump.
- 7. (Original) The device of claim 4 where a second pump is used to dispense the ozonated liquid.

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- 8. (Original) The device of claim 1 where the ozone containing gas is pumped by a gas pump through a diffuser into the liquid.
- 9. (Canceled)
- 10. (Original) The device of claim 1 where more ozone is generated than can be dissolved in the liquid flow.
- 11. (Original) The device of claim 1 where the dissolved ozone concentration is determined by the solubility of ozone in the liquid.
- 12. (Previously Presented) The device of claim 1 where a valve controls the rate of output flow of the ozonated liquid through a dispensing tip.
- 13. (Original) The device of claim 12 where the excess portion of the ozonated liquid flow is recirculated to the contact region or reservoir.
- 14. (Original) The device of claim 13 where the output pressure is regulated by a relief valve in the recirculation line.
- 15. (Previously Presented) The device of claim 1 where the ozonated liquid is caused to pulsate as it leaves the controllable delivery system.
- 16. (Original) The device of claim 15 where the pulsation is produced by the outputting pump.
- 17. (Original) The device of claim 15 where the pulsation is produced by a resonating structure in the liquid output line.
- 18. (Original) The device of claim 1 where porous hydrophobic material is used to prevent liquid from entering the ozone generator.
- 19. (Original) The device of claim 1 where the excess gas is separated from the liquid at minimal pressure.
- 20. (Original) The device of claim 1 where the excess gas is separated from the liquid by use of porous hydrophobic material.
- 21. (Original) The device of claim 1, further including a system which prevents liquid from entering the ozone reducing material.

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- 22. (Original) The device of claim 1 where an ozone sensor causes an indicator to show that the device is operating properly.
- 23. (Previously Presented) The device of claim 1 where the liquid reservoir is a reservoir that can be temporarily removed for filling with liquid.
- 24. (Original) The device of claim 1 where bubbles of the ozone containing gas are displayed.
- 25. (Canceled)
- 26. (Original) The device of claim 1 where the air supplied to the ozone generator is dried by passage through a desiccant material.
- 27. (Original) The device of claim 26 where the desiccant material is protected from entry of moist air when the device is not operating by use of spring loaded check valves.
- 28. (Original) The device of claim 1 where the gas/liquid separating apparatus includes a float valve.
- 29. (Original) The device of claim 1 where the ozone producing and dissolving system and the liquid dispensing system are detachable from one another.
- 30. (Original) The device of claim 29 where the liquid dispensing system is responsive to the controller by means of an electrical connection.
- 31. (Original) The device of claim 1 where the liquid passageway extends to a dispensing tip and where the liquid pumping system is arranged to cause the liquid to move from the contact region to the dispensing tip.
- 32. (Original) The device of claim 21 where liquid is prevented from entering the ozone reducing material by use of a porous hydrophobic barrier.